



Performance Data Sheet

VSAG513ZXT

General Information

Model	VSAG513ZXT	Refrigerant	R-404A
Test Condition	ARI	Performance Test Voltage	230V 3~ 60HZ
Return Gas	4.4°C (40°F) RETURN GAS	Motor Type	3PH

Performance Information

Evap Temp (°F)	Condensing Temperature (°F)							
		80	90	100	110	120	130	140
-40	Btu/h	7820	7630	7360	7000	6550	6020	5410
	Watts	1720	1870	2080	2340	2650	3030	3460
	Amps	6.34	6.61	6.98	7.47	8.08	8.79	9.61
	Lb/h	138	137	137	136	136	135	134
-35	Btu/h	9170	8850	8450	7960	7380	6720	5970
	Watts	1810	1950	2150	2400	2720	3080	3500
	Amps	6.45	6.72	7.10	7.59	8.18	8.89	9.71
	Lb/h	155	155	154	154	153	152	152
-30	Btu/h	10700	10200	9670	9040	8330	7530	6640
	Watts	1890	2030	2220	2470	2780	3140	3550
	Amps	6.58	6.85	7.22	7.71	8.31	9.01	9.83
	Lb/h	176	176	175	175	174	173	172
-25	Btu/h	12300	11700	11000	10200	9390	8440	7410
	Watts	1980	2110	2300	2540	2840	3190	3600
	Amps	6.73	6.99	7.36	7.84	8.44	9.14	9.96
	Lb/h	201	200	199	199	198	197	196
-20	Btu/h	14000	13300	12500	11600	10500	9450	8270
	Watts	2070	2190	2370	2610	2900	3250	3660
	Amps	6.88	7.14	7.51	7.99	8.58	9.29	10.1
	Lb/h	228	228	227	226	225	223	222
-15	Btu/h	15900	15000	14000	12900	11800	10500	9200
	Watts	2160	2280	2450	2690	2970	3320	3720
	Amps	7.05	7.30	7.67	8.15	8.74	9.44	10.2
	Lb/h	259	258	257	256	254	253	251
-10	Btu/h	17800	16800	15600	14400	13100	11700	10200
	Watts	2250	2370	2540	2760	3050	3390	3780
	Amps	7.23	7.48	7.84	8.32	8.91	9.60	10.4
	Lb/h	293	291	290	289	287	285	283
-5	Btu/h	19800	18600	17300	15900	14400	12900	11200
	Watts	2350	2460	2630	2850	3130	3470	3860
	Amps	7.41	7.67	8.03	8.50	9.08	9.78	10.6
	Lb/h	329	327	326	324	322	320	318

0	Btu/h	21900	20500	19000	17500	15800	14100	12300
	Watts	2450	2560	2720	2940	3220	3550	3940
	Amps	7.61	7.86	8.22	8.69	9.27	9.96	10.8
	Lb/h	368	366	364	362	359	357	354
5	Btu/h	24000	22400	20800	19100	17300	15400	13400
	Watts	2560	2670	2830	3040	3310	3640	4030
	Amps	7.82	8.07	8.43	8.89	9.47	10.2	11.0
	Lb/h	409	407	405	402	399	396	393
10	Btu/h	26100	24400	22600	20700	18700	16600	14400
	Watts	2680	2780	2940	3150	3420	3750	4130
	Amps	8.05	8.29	8.64	9.10	9.68	10.4	11.2
	Lb/h	453	450	447	444	441	437	433

COEFFICIENTS	CAPACITY	POWER	CURRENT	MASS FLOW
C1	2.942117E+04	3.627359E+03	9.607451E+00	3.762926E+02
C2	6.786050E+02	2.800475E+01	4.555764E-02	8.641709E+00
C3	-5.628872E+01	-3.726370E+01	-6.914812E-02	-2.452106E-02
C4	1.673671E+00	8.557082E-02	2.312748E-04	5.691043E-02
C5	-3.197512E+00	-8.528834E-02	-5.417476E-05	-6.846835E-03
C6	-4.802257E-01	2.826100E-01	5.528266E-04	-1.047547E-03
C7	-1.915713E-02	1.545265E-03	-4.338176E-07	-2.173272E-04
C8	-9.903789E-03	7.168254E-04	-2.629176E-07	-1.060949E-04
C9	-8.721465E-04	4.848771E-05	-3.133049E-08	-8.074331E-06
C10	5.477895E-05	-4.431985E-06	1.032679E-09	6.413901E-07

$$\text{Value} = C1 + C2 * Te + C4 * Te^2 + C7 * Te^3 + (C3 + C5 * Te + C8 * Te^2) * Tc + (C6 + C9 * Te) * Tc^2 + C10 * Tc^3$$

Te = Evaporator Temperature

Tc = Condensing Temperature